SUPERBASE 18

COLD LAKE

Canada's Northern Guardians



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Frost cover Wearing the distinctive red AETE 'X' on its fin, a typically grey CAF FA-188 bands gently over the picturesque Primose Lake Evaluation Range. Beneath its wings are two large 480 gallon fuel tanks mounted inboard, and a pair of MK 03 1000 lb bombs on the outer stations (AETE).

Back cover Baring its teeth to the world, a 23rd Tactical Fighter Wing (TFW) A-10 Thunderbok II proves that the 'Warthog' does indeed have teeth, especially when it comes to 'tank-busting'

Page two The large Base Aircraft Maintenance Engineering Organization (BAMEO) Hangar One with the control lower located on top dominates the Cold Lake skyline, and can be seen from many miles away.

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Introduction

Canadian Forces Base Cold Lake, home of the Canadian fighter pilot, is situated in the remote north eastern corner of Alberta, almost on the border with Saskatchewan. It was opened in 1984 to be used as an air weapons training base, and still performs this vital function today. The base is also home to two frontline squadrons.

Over 3000 military personnel, 3200 dependents and 470 civilian employees live at Cold Lake, making it both the biggest and the busiest fighter base in Canada. Largest resident flying unit is No 419 'Moose' Sgn which operates over 30 CF-5A and Baircraft in the tactical training role. The first of three CF-18 units is No 410 'Cougar' Son which acts as the conversion unit, whilst No 416 'Lynx' and No 441 'Silver Fox' Squadrons are operational units. The Base Flight comprises 12 CT-33A 'T-Birds' and three CUH-1H Huev helicopters. Cold Lake is also home to the Aerospace Engineering Test Establishment (AETE), this self-contained unit being responsible for flight testing all aircraft. weapons and avionics systems destined for use in Canadian military aircraft

The base also looks after the nearby Cold. Lake Air Weapons Range (CLAWR), one of the most sophisticated facilities of its type in the world. The range incorporates Cubic ACMI equipment covering 100 target areas with over 700 individual targets ranging from disused vehicles and aircraft to dummy SAM sites and airfields. CLAWR has also been designated a supersonic range, with pilots able to fly their aircraft at speed down to 100 feet. The CLAWR facility is heavily used during the annual Maple Flag exercise which brings together several NATO air forces for six weeks of intensive 'reallife' flying above the Cold Lake pine forests. Basically the Canadian equivalent of the highly successful Red Flag event held at Nellis AFB

(featured extensively in Superbase 1), Maple Flag was first held in 1978 and took the form of a twice yearly, four-week long exercise until 1987 when it was rationalized into its current format

Cold lake is an extremely modern and well equipped air base with three long runways which handle 140,000 aircraft movements a year. The large Base Aircraft Maintenance Engineering Organization (BAMEO) hangar with the control tower on top dominate the skyline, and the control tower on top dominate the skyline, and the control tower on the contr

One corner of the airfield hosts the Medway Air Terminal to caler for the small number of commercial flights from Edmonton which serve the local towns of Cold Lake, Grand Centre and Medway, The base air traffic controllers also provide a service for flights into seven small regional airports in the area.

Arquably the most important air hase in Canada, Cold Lake will continue to play a vital role in the training of NATO forces, as well as CAF fighter crews, well into the next century. Perhaps the base badge, a colourful emblem consisting of three timber wolves looking north, or consisting of three timber wolves looking north, and professional competence of the personnel who function as a seam at Cold Lake.

Skanding guard over the flags outside Base Headquarters is this CT-1018 Voodoo. Although the Voodoo was never based at Cold Lake, the type was a frequent visitor and is remembered with affection by those who were connected with it. Maintained in immaculate condition, this particular aircraft carries the markings of No 410 Sqn on the port side of the fin. and No 418 Sqn on the starboard

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The moose is loose

A fit of CF-3A Freedom Fighter from No.19 "Moose" Tacincal Pipher Traumor Squadron. The CF-3 in discally known in Canada as the CF-18, and No.49 is a bearing set from time sequation in Canada with well over 30 surersh on strength. Formed at RAF Mideshabit in December 19-13, No.19 soon acquired the Taches and CF-3 in the CF-3 in







No 419 has been the CF 3 Facinital Papient Training Squarfron steen I November 1175. On completion of baser training on the CT 114 Train at CFS Moore [low, those destinated to be flighter piloting long No 419 to learn how to use the aeroptime as a fighting nucleit. The uniclosed 175 bloom colleastores through and 45 hourst as a fighting nucleit. The uniclosed 175 bloom colleastores through a pilot p



During the low-level phase of the course pulces are eventually permuted to fly down to heighth of only 250 feet, tenting their naviganonal skills at high speed and low altitude over the often featureless terrain of northern Alberta. The squadron's moore sungama is panied on the fin, usually on a pale bit background, as seen on this CF-5A climbing out from a low-level training mission.

Below Almost there! The student in this CF-5A inches forward hoping for a successful prod'. The art of aernal refuelling is not as easy as it appears. Trying to fly the probe into dedrogue basket, which can often oscillate violently in surbulence, requires a smooth approach and immense concentration

Right Most CF-Ss are now camouflaged, but some two-seaters retain their natural metal finish















Top and shove An important supect of iscincial training is leaching the art of surcombat. To make it as realizing as possible the CF-5s are painted up in a variety of camouflage schemes, many of which are similar to those used by USAF aggressor squadrons. In keeping with the spirit of all true aggressor outlits, No. 419 adorns their CF-5s with Sowiet-style Soviet superior humbers.

Left Consect! As dusk rapidly approaches this student makes a successful content with the stathourd droppe until deployed from a CO-17 motor of No.47. The war of No.47. The w

The instructor in this CF-SB approaches the basket to check for possible damage after an unsuccessful attempt by one of the students.











Left Painted up in a new scheme of grey and dark green, with toned down national insigna, this aircraft is being towed back to the No 418 Sqn ramp after engine testing. Parked beyond the CF-18e are a pair of King Air aircraft at the Medway Air Terminal

Above The sheer variety of paint schemes on No 419's CF-5s is clearly visible in this ramp shot of the squadron dispersal. Some of these aircraft are being refuelled between sorties, this mandatory function being performed soon after the pilot has shut down and vacated his mount



Right A CF-SB at rest on a crisp spring morning. Ropes are being used as chocks on this aircraft, standard practice on Canadian fighter bases. The "Moose' squadron currently has three foreign exchange pilots serving as instructors, one each from France, Germany and the USAF

Above Except for the wingtip tanks this two-seat B model is in clean configuration. Usually No 418 Sqn machines carry weepons pylons or a centricline has leak. Air to ground weepons delivery is carried out at the Jimmy Lake Range, whilat air-to-air guamery is practised against a banner target towed 1500 feet behind another aurcraft







Above The squadron's moose insigma on the tail of a CF-5A. Clearly visible is the US style night formation strip light on the fin

Right Amongsit the 30 CT-56 on strength with the 'Moose' equation several have the option of being recommissions optimized with the finness of a destachable nose section which contains three 07 mm Visites cameras. Originally assigned to the now disbanded No 45 kg, these activata are designated of CT-5A8s when the recommenders of the contained the original of the contained of the contained of the original original or the contained of the contained or the contain











Left in 1989 No 419 Sqn painted an aurcraft in a special scheme to commemorate in 25th anxiversary (although formed in 1941 the squadron has been disbanded twice) as an active unit. Aircraft No 116703 was the machine chosen, and it frequented a number of airxhows in Canada during the summer of 1989

Above A close up of the tail shows the charging moose





Above The pilot of this CF-5B holds his hands aloft, clear of the controls and wespons switches, to enable the groundcrew to make a final external check of the aircraft







 $\mathbb A$ CF-58 undergoes a quick check from the groundcrew prior to taxing for a training mission



This No 419 Sqn CF-5A is heavily loaded with long range fael tanks on the inboard pylons and rocket pods on the outboards. Lacking the squadron's moose logo, this machine has only recently been acquired from the AETE, whose 'X' still adorns the aircraft's rudder





Below The first Canadian operator of the CF-5 was the Aertopace Engineering Tell Entshibment (AET) at 10cd Lake. This unit is taked with tenting all ascend, ascended represent and response to be used by the Catalana Forces. ascending the control of the contr

Left All secral to strength with the AETE carry a red 'Z' for experimental on the fin, as seen on C7-8 tileston Thus was the first two exact C7-8 cilestrone C7-8 tileston Thus the first two-exact C7-8 cilestrone C7-8 tileston C7-8 trength ever since. Unlike the C7-8A, the 8 models do not carry any special subminentation, and are openarily used for C7-8 project work, proficiency and chase plane duties. In this photograph the C7-8 project work, proficiency and chase plane duties. In this photograph the C7-8 project work carried to the C7-8 project work carr





The photographers of AETE log almost as much flying time as some of the aircrew as many of the trials conducted have to be photographed from a chase plane, which is usually a CT-33 or CF-88. This CF-88 was photographed on a chase plane training mission for the benefit of a photographer who had recently insend the AETE (Peter Prater).



The AETE is a self-supporting unit and undertakes all servicing of its varied feet of aurerfa, twich usually comprises 80 or so artimate of up to eight different types. The sure's plots will have attended one of the four recognised for plot schools; the Empire Teer Hous School (ETS) a Blocombo Down, the AETE CONTROL THE CHEST OF THE STATE OF THE AETE OF THE AETE OF THE AETE CONTROL THE AETE OF THE A





Hornet, Canadian style

Identity crisis! This CF-18A Hornet wears the markings of No 410 Sqn, plus the AETE's experimental 'X'. As AETE's three Hornets were heavily involved in other trials the unit borrowed this aircraft for a short term air-to-air refuelling trial with a CC-137 tanker of No 437 Husky' Sqn (AETE).

AETE currently has three CF-18s on strength, including one dual 8 model. These three are engaged in a full range of projects for the Horset programme, not of the most recent being 10 weeking the handling programme, and underwing the tasks, as seen in this short the CF-18s. As Cold Late is located well wavy from any industrial centres the visibility is generally excellent. Indued, the limiting factor is usually the range of the human yer (AETE)





As the Primrose Lake Range is virtually on Cold Lake's doorstep maximum utilization can be made of aircraft engaged on weapons trials. In this instance, a CF-188 fires a salvo of Canadian designed CRV-7 unguided rockets which are built by Bristol Aerospace. The 'passenger' in the back seat is actually a photographer capturing the event on film for future evaluation. Because many of the test programmes rely on an accurate record of events, a number of systems have been developed to aid the photographers in their demanding tasks. These mainly involve remote controlled still, cine and video cameras mounted externally in strategic places on the sircraft. This particular CF-18 has two cameras attached to a specially adapted missile rail which has in turn been fitted to the starboard wingtip. The AETE CE-18s have been adapted to carry up to 16 cameras on the underside and wingtips, the unit's CF-Ss also having a similar capability (AETE)









The old and the new. An agoing Canadair CF-104D Strafgaler formates with a newly delivered CF-188 equipped with winging mounted cameras. The Starfghler has since been returned by the CAF, the AETE being one of the last operators of the classic Lockheed jet. Judging by the lisuh vegetation below, this shot was taken during the summer (AETE).







Left Surrounded by various items of test equipment, and loaded up with a pair of bulky 480 gallon underwing fuel tanks, this AETE CF-188 is parked outside hangar seven at Cold Lake

Abere Although No 410 'Cougar' Squ was fe fast ACT 'must to receive the Hierart in October 1981'. the distinction of being the fast frestlenic until equipped with the CT-18 west to No 60' Nighthewit 'Spn. This as -Voodoo unit began operations with fact "18 in pit 1984 of Cold ske where it was unameded to sense the control of the c





Lett During the cold winter months at Cold Lake the sun's zenth is rather low, and not at all conductive to good photography. This pair of No 409 Sqn CF-18As were snapped reduelling from a CC-137 over a snow covered Alberta landscape in December 1984

Above The training unit for Canadian CT-18 pilots in No 410 Tacnical Piphor (Operational Training) Squadron. The original of this unit date back to 1944 when it was formed at Ayr, in Scotland, as a sught eighter squadron operating the Souther-Neul Dehant, Letter in the vari of their the Beauthpitre and Meaquisi of Souther-Neul Dehant, Letter in the vari of thoritimes in 1945 it reformed in Canadia in 1940 operating the Year Canadian in 1940 operating the Year Canadian unit to 194 he 78 85 Sabre, an arriart in operated from England and later Germany and France. Subsequently in flow the CT-100 Canadian unit to 1941 Veodoo



The GT-18, as it is almost always referred to it officially known as the GT-188 in Canada, and Mo 4105 gra recovered in first surerish on 31 Geobber 1988. The equation devised its own course for students, who graduate from the fighter leads in course on the GT-8 at 10 Mo 119 gram. This includes GD hours of ground exclosel, 40 hours simulation time and SS hours flyors. The course curriculum exclosel, 40 hours simulation time and SS hours flyors. The course curriculum coverse learning how to haddle the actual recomposently and to its limitations, of the course of the GT-18 and clarify the methods as a weapons platform.

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'Cougar' Sqn CF-188 at rest between mussions. The bulbous canopy affords the pilot an excellent view, a definite plus point when it comes to ACM. The dummy canopy painted on the underside of the forward baselage helps to confuse an adversary as to the aircraft's true aspect during air combat.



Abova A. Cougar' Squ G-T-188 armed with rocket pods taxes to the last chance check at the holding point of runway 508. Being the training unit. No 410 has a large fleet of 27 aircraft, the bulk of which are two seat B models. The seguation mass two courses per year, each kinding five and a half months and containing 28 programmes for all CAF Hornet units; these being the equivalent of a US Navy Top Gust' course.

Right Number two of a four-ship formation awaits the arrival of his squadron makes prior to a ground attack training mission. To reduce fatigue on the twin fins Hornees have now been fitted with a leading edge extension (LEX) fence, upon which No 410 have punited a running congar









Left Canadian Hornets retain almost all the features of their US Navy counterparts, including the folding mying displayed by this No 410 Sqn CT-18A. They also retain the cataput Islanch bar on the nosewheel, as removal of these items would have made the acreat much more sepantive. Another legacy of its carrier lineage are the sturdy main undercarriage legs, ideal for blue water operations.

Above Refuelled and rearmed, thus CF-18A is almost ready for its next training mission. Long gone are the colourful unit markings of the Voodoo era, replaced by a rather nondescript low visibility grey coughts' head misjima. However, even this was too much for the powers that be and they deemed it was too big. The moit has since been reduced to half size.

Overleaf The end of a hard day, and this CF-18B rests in the cool evening air. Although used primarily for training, the two-seat B model is fully operational, and in time of war the instructors and aircraft would be assigned to the NORth American Air Defense Command (NORAD) in the air defence role.







Above No 410 Sqn received the 138th, and last, Canadian Hornet on 28 September 1988. The reduced size unit markings and toned down national insignia are illustrated on this late-build GF-188

Right The final Canadian Hornet unit to form was No 416 Tactical Fighter Squadron, better known as the 'Lynx' squadron. This distinguished unit was formed at Peterhead, in Scotland. on 18 November 1941, and for the next four and a half years flow various marks of Spitfires in England and Europe. Subsequently the squadron operated P-51 Mustance. then progressed to the jet era and the T-33, F-86, CF-100 and CF-101. No 416 was the last Voodoo air defence squadron, disbanding on 31 December 1984. Nearly four years were to elapse before the 'Lyny' squadron reformed, this time at Cold. Lake with the CF-18











Left The primary role of No.416 Sqn is the rapid reinforcement of NATO's contral region, as area to which the unit would deploy with the act of dark-o-air refuelling, operating from CFB Lehlr in the Federal Republic of Cermany once they had attruct. The unit is supported in this role by 150 453 Sqn at Bapotrille, Quebec, Illustrated in aircraft No.186768, the last of 88 CF1-18As to be delivered to the CAF.

Above Unit markings on CAF Hornets are disappointing when compared to those which adorned the Voodoos. The lynx's head on No 416 Sqn aircraft is unrecognizable when viewed at any distance from the aircraft.



CFB Ragornile in Quable is a home to two Hornest equadrons, No 483 7-Alosente's and No 433 Porcupine. The role of the formers are a decision whilst the later is primarily ground stated, with an additional lasts of NATO residor-censest. A participation in Alego Harden and the Company of t



A No 433 Sqn CF-18A taxies back to its parking spot whilst participating in the 1989 Maple Flag exercise. The unit previously operated CF-5s before converting to the Hornet in 1988



Above The day's work is over for this 'Porcupine' squadron CF-18A, but it has already been turned around by the maintenance crows ready for the next day's mussions. When this photograph was taken 75 per cent of the squadron's aircraft were operating from Cold Lake; seven on Maple Flag and two with the FWI course

Right When full power engine runs are to be carried out it is standard practice for engine quards to be placed in frost of the intakes to prevent foreign object damage (FOD). Hems such as stones sucked unto the engine could damage it urreparably, or even worse the damage might not become apparent until the aircraft is airborne.







Above The unit marking carried on the tail of No 433 Sqn Hornets. The small 'e' after 433 stands for Escadron, as the unit is French speaking.

Right in keeping with the animal theme that appears to be so popular with CAF Hornet units, the final CF-18 squadron to be found at Cold Lake is No 441 'Silver Fox' San. Formed in Sydney, Nova Scotta, in 1942, the "Silver Foxes' initially operated Hurricanes before moving across the water to England in 1944 to operate the Spitfire, and later the Mustano. The unit entered the set era in 1951 with the introduction of the Vampire. before proceeding overseas again with the F-86 Sabre. The introduction of the CF-104 Starfighter saw the unit moved to Lahr, and finally Raden Spellingen where it disbanded in March 1986, thus bringing to an end CAF operations with the venerable Lockheed fighter, It reformed at Cold Lake in June 1987 on the CF-18, Here, one of the unit's female technicians is seen assisting the pilot to strap in









Left Clear to start number two. A 'Salver Fox' Hornes with long range tanks as seen starting up prior to departing on a training searcies. The squarkon frequently operates accreaft from forward operating locations (FOLs) such as the civil strikels at a linuvix and Yellowinder in the Northwest Pertrioners, as well as a new facility at Rankin Inleit. Operating from these remote sites with limited facilities in the module of writer is quite a feat







Left in the warmth of a Cold Lake hangar that Silver Fox' jet undergoes systems checks ready for the following day's flying. The luminous strips which assist in night formation flying are clearly visible

Above The Cold Lake 'den' of No 441 'Silver Fox' Sqn

Silver Stars

Right Base Flight's 'T-Birds' all carry the Cold Lake titling in a red and white band on the fin

Far right 1990 saw the Lockheed T-33 Shooting Star trainer celebrate its 42nd birthday, quite a feat for a jet trainer. The Royal Canadian Air Force, as it was then known, took delivery of its first T-33 in 1981. The RCAF eventually received an amazing 656 of these aircraft which were built under license by Canadair in Montreal. Technically designated. the CT-133 Silver Star in CAF service. but usually referred to as simply the CT-33A, nearly 70 examples of the venerable trainer still serve with various units. This immaculate looking "T-Bird" is attached to the AETE where it usually fulfills chase plane and general purpose duties (AETE)













Above and right After the CPS equipped for 619 Eqn. the CRF's Licyour stills. 0614 Who figh CTS and CCT-164 in the CRC Who fee from CTS horth key it has 307 -Brard's on strength, eight of which are condigured as ET-SSAs, having underwrapp prison to carry chalf dispensing and radar jamming opts. The unit maintaines a large fleet because in is also responsible for the straming of now "CTS applies. One of the manutaine of the sequention is in provide infent targets considerably and the control of the c

Left For many years CT-33A, 13596 has been used by AETE for ejection seat trials. For this purpose the rear cocity ideos not have a canopy, and these days a dummy is used on ejection trials. – a far cry from the days when live "volunteers" were used. This aircraft was finally withdrawn from AETE use in mid 1869, and was destined to be stored, it is possible that it may still be used for selection seat trials are later date (AETE).









Above Cold Lake's lake Tighthis the largest, and has the most diverse task of any flase Flight in Classick. The three Cell 118 likes philotopers are used on any flase Flight in Classick. The three Cell 118 likes philotopers are used to CT-3DA flase of II according based range apport overly, while the more numerous CT-3DA fless of II according based range apport overly. The Cell India of the India of the Cell India of the India of

Left The T-Bird' is much loved by CAF pilots, and is so easy and cheap to maintain that it is likely to remain in CAF service into the next century! The Rolls-Royce Nene engine is so reliable and robust that in the words of one CAF technician' you could throw a rock down the intake and it would spit is and out the patiple. 'CAF T-Bird' are kept in immaculate condition by the technicians, as exemptified by this No 414 Spin attrast





Maple Leaf heavy metal

Left above and below Although no longer in CAF service these photographs of the classes Vood obta to be included. These No 4 left years Seq aircraft were participants in the October 1984 Maple Play exercise, an event which took place just a few months before the last of the CF-101 air deletion equations (although the CF-101 air deletion equations) distanced. The Voodoo did, however, put in appearances at Codi Lake after more reported to the CF-101 air deletion of the CF-101 a

Below A No 416 Sqn CF-101B decelerates with the aid of a brake parachute after landing on runway 30R. The distinctive 'candy striped' control tower is an excellent landmark for crews returning to Cold Lake





A rare photo of a camouflaged Canadian Voodoo of No 418 Sqn. This hastily applied water-based paint helped cut down reflections from the normal gloss grey scheme whilst the unit took part in a Maple Flag exercise



the size of the aircraft's navigator, Captain Hank Dielwart. Rhino hooves on the main undercarriage doors add a further personalized aspect to this Voodoo





Cold Lake oddities

To coincide with the 1889 Maple Flag exercise the base held a rare open day. Needless to say one of the star attractions was the CAF's own air demonstration team, the Snowbirds plot's helmet poses on the highly polahed wing of one of the team's CT-114 Tutor jets



Above This colourful CT-114 is one of a pair of Tutors belonging to the AETE and is used for proficiency flying and chase plane duties

Right The Canadast CC-144 Challenger is used by No 0125gm at OTB Uplands, near Ottews, as a medium and long range executive transport. These stranwhich have the range to cross the Atlantic, replaced three CC-117 Falcon 20s, and are frequently used to carry operument officials. The Challenger beat the Minister of Defence to Cold Lake for a briefing on the Maple Flag exercise, and to experience of light in a CT-18.









Left As personally mentioned, the CT-Xia of No 41-Spp are frequent values as Ocididach in delicition to being the CT-Xia of No 41-Spp are frequent values as ocididach in the control of the CT-Xia manipul min, the agustater was also responsible for providing converseor treaming ones to 6-CT-XI factors 4W-en and the CT-XIA occurs to the Palsons were operated by the sum in the CEX for the control of the CT-XIA occurs to the CT-X

Below One of the more recent additions to the AETE inventory is this Challenger which has the designation CX-144. It is used as an avionics testbed and, in contrast to the VIP configured CC-144s, is painted in a low visibility grey scheme.







Left Like its CT-33s, the three EC-117 Falcon 20s used by No 414 Squadron for ECM training were regular visitors to Cold Lake. These arroral frequently operated with ISAF F-106 and F-15 air defence grundrons assigned to NORAD. The Falcons have now been replaced by an ECM training version of the Challenger.

Balow Inf. and Balow Wichmand Piscockin¹, this CC-13b, heats / zooms as the CAC D balow, has been a resident at Odd. Lake for many years. The reason for the Young Y



The AETE rotary fleet consists of two CH-136 Klowss and two CH-136 Twin Hueys, the latter being sometimes referred to as the CUH-1N





Preserved for posterity

Right As with most bases, Golf Lake has a small collection of historically sugnificant aurard preserved on deplays in various spew within his confines. Ever aircraft, including the recently retired "Procecho" Dakots, sit outside the base headquarters building, in the foreground of this host a Canadator Tri-10s Connects, neichasmed the Climic in CFA service, which wears the badge of No 3 Connects, neichasmed the Climic in CFA service, which wears the badge of No 3 Connects are consistent aircraft of the short of the CTA to see done marked of the connects of the connect

Below Despite never having been based at Cold Lake, a place has been found for the venerable Voodoo. The base Hornet units, No 410 and No 416 Squadrons, both operated the Voodoo before their present mount, hence the markings which adorn the tail of this aircraft.









Prior to the type's retirement, Cold Lake was home to the CF-104 Starfighter training unit, No 417 Sqn. Therefore, it is hardly surprising that a CF-104 graces 'posterity park' counted base headquarters. The sirrcraft in question is in fact a hybrid of two airframes that had been retired, and is in RCAF and Cold Lake Base Flight markings



Although the type is still in service this CT-133 Silver Star was one of the first candidates for preservation





Maple Flag Phantom IIs

During the 1970s the mighty
McDonnell Douglas F.4 Phantom II
was the backbone of the USAF's
Tactical Air Command and it is not
surprissing that the type has
dominated the Maple Flag ramp over
the years. Here, a pair of SeymourJohnson based F.4Es from the 4th
Tectical Fighter Wing's 337h Tectical
Fighter Squadron (TFS) get airbores
from the 1260 0000 tole nor runway on



Above Manoeuvring into its parking slot is an F-4E from the 337th TFS, 4th TFW, a unit which is currently converting on to the F-15E Strike Eagle

Right above and below Art National Cuard units also regularly participate un Maple Flag serziess, the skill architect by crew on these occasions belying the fact that they are part-time jet jocks. Painted up in European One 'lisard' camoufalage, these '4 Dis are from the Georgia Art National Guard's 188th TS, 118th TEW at Dobbins AFB. The 118th TFW recently transitioned onto the F-15A Engle





Right The crew of this Air Force Reserve F-4D Phantom did extremely well to bring the aircraft back to Gold Lake after a massive explosion in the starboard engine jetpipe severely damaged the corresponding sitiplane. The "Th' tallocde and Toxas flag markings on the fin identify the sircraft as belonging to the 467th TFS, 301st TTW at Carswell ATB

Above Based at Bergatrom in Texas, this RF-4C, captured at rotation point in its take-off run, belongs to the 87th Tactical Reconnaissance Wing (TRW)









Below The crew of this RF-4C recce bird await taxi instructions before carrying out a pre-strike recommissance mission during the Maple Plag XIV exercise. RF-4C units are regular participants in Flag exercises, this machine belonging to the 91st TSS, 67th TRW

Left RF-4C Phantom IIs being prepared for their next mission. The aircraft nearest the camera is being reloaded with chaff and photo flash cartridges





Above The majority of the USAF's Phantom II fleet are now receiving the two tone grey camouflage scheme, as seen on this RF-4C from the Mississippi ANG's 153rd TRS, 188th TRG

Right The camera ports in the nose of this RF-4C are clearly visible









A pair of Mississippi recce RF-4s depart on another sortie. The open doors on the rear fuselage cover the chaff and flash cartridge dispensers

Birds of prey

A line-up of F-15A Eagles from the 49th TFW based at Holloman AFB, New Mexico. Those with yellow fin ups are from the 8th TFS, whilst the blues are from the 7th





Below right An F-18C with the 'FF' atlaced of the 'Fighting First', the 1st TFW based at Langley, Virginia. Members of the 3Th FFS are extremely proud of their squadron, hence the appropriately coloured intake and ejection seat covers, the latter complete with squadron emblem.

Right A perfect touchdown on runway 12L for this F-18C Eagle. As the runway is long the pilot does not deploy the large airbrake but chooses to keep the nose high for aerodynamic braking instead







Abeve Maple Flag XXII was the first time the 57th Fighter Weapons Wing (FWW) from Nellia AFB had brought their F-l6 Fighting Falcons to Gold Lake. Veterans of many Flag sexcesses in the venerable F-8E Figer II, the 57th FWW had only recently completed transitioning onto the F-16 when Maple Flag came around



Robers The General Dynamics F. 18 Tighting Paleon now dominates the USAT Taccock Air Command inventory, and as a result the type to abcoming a regular sight in the sknes over Cold Lake. Loaded with practice bombs. thu F. 16 R. from the Strd Taccock Tiphting Terming School (TFTS), 56 R. dracical Training Will (TFW) all McDill AFB, Florida, taxies past for an early morning departure during Maple Tips (TW).



Above The honour of being the USAF's first F-18 wing belongs to the 388th TFW at Hall AFB, Utah. A component of the wing is the 34th TFS, whose aircraft carry the squadron nickname 'Rams' within their red fin band.



The runways at Cold Lake are long enough for F-16s to get airborne safely without the use of afterburner $\,$







Strike muscle

Left A typical Maple Flag scene; an FB-111A holds to let a trio of CF-5s taxi back to the ramp, while a pair of Tornados depart in the background

Below An FB-111A from the 509th Bomb Wing (BW) at Pease AFB, New Hampahire, taxies forward from its parking slot at the start of another demanding Flag mission. A member of the groundcrew takes shelter behind the ground power unit to avoid let blast from the enouses.





Blast-off! The newly adopted paint scheme on this FB-111A renders the unit markings virtually invisible from any distance

Right Technicians work to repair a fault on an FB-111A whilst a Base Flight CH-118 Huey is parked on Search and Rescue standby





Left A low and fast break by a 380th BW FB-111A, despite having the wings swept forward. The FB-111 fleet is currently attached to Strategic Air Command, but the type is soon to be refurbished and reissued to Tactical Air Command as the F-111G



Above right 'Swingora' from the 509th BW on the Cold Lake ramp prepare for their next mission. The aircraft nearest the camera is in the new low visibility scheme with the outline of New Hampshire on the fin, whilst behind is an aircraft in the more traditional FB-111 scheme. In the background is AETE's hangur and some of the nutt's wards fined.

Below right Whilst the jots are away the men will play, or in this case sunbattle 'Fb-111 groundcrows enjoy the summer sunshine whilst awaiting the return of their swing-wing bombors from a Flag mission









Above in stark contrast to the sleek lines of the Eagles, Falcons and Hornest that seem to proliferate at Gold Lake has fearsome looking A 108, Thundscholt II gives off a far more pugnacious air, Deployed to Canada on a 'take-busting' exercise, this aircraft, along with others from the 23rd TFW at England AFR. Louisians, apent many hours over the nearby Fort Wainwright ranges working closely with GFA ground units

Left The size of the large BAMEO hangar is readily apparent, even though only half of it is visible in this shot

European flavour

Right and Bollow Exercises such as Mogle and Red Flag provide ideal transing for operation; in the 5-0 AVIGAS areas. It has see gatherings are amongst the few occasions when large multi-role, multi-entonal formations can be directed by the authoring seys. Cere from 10 that the 1947-18 5506 Authorine Early Warning & Comret Miney (NW & CW) at Tuken ATH, 'Clathoma, and the NATO AEW Torread of Celebratheral Learnineurs per surperson on an alter manny weekly or formaging by less. The 1041-10 Ferror manlay brings a tack-to-parter of which, does NATO AEW Torread of Celebratheral Learnineurs (Learnineurs) and the NATO AEW Torread of Celebratheral Learnineurs (Learnineurs) and the NATO AEW Torread of Celebratheral Learnineurs (Learnineurs) and the NATO AEW Torread Celebratheral Learnineurs (Learnineurs) and t









Above The eyes of the AWACS – a close up of the large radoms which houses the Westinghouse AN/APY-1 surveillance radar. The NATO Arborne Early Warning Force comprises eighteen aircraft, with multi-national crews from the NATO countries.

Right Unit from Royal Air Force Germany (RAFO) have frequently taken part in Maple Flag. During the 1989 Flag. Transition soot part for the second phase of the exercise, the when the present counted for low level transition. AIV of maintains a permanent deskenhent at Goose during the summer months, where it deployes amit of air transition for TAFO units, with the air and ground crews changing over proidiculty. TAFO units, with the air and ground crews changing over proidiculty and the proper source of maintained by a crew from No 30 Sign maintained by a crew from No 30 Sign maintained by a crew from No 30 Sign maintained.











Abova With Skyshadow ECM pods on the outboard pylons, a Tornado prepares to depart on a mixed attack mussion with USAFF-les. Although devoid of unit markings due to a recent service and raspray, this aircraft actually belongs to No 20 Sqn, based at RAFG Learbruch

Right No 16 Sqn Tornado lifts off into the murky overcast skies. British crews feel quits at home in such conditions as they frequently prevail in the UK and northern Germany

Pravious pages Between missions the groundcrews scurry around the aircraft like ants, refuelling and preparing it for the next sortie





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